

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found.  
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.  
Step 3. Conduct Bradenhead test.  
Step 4. Conduct intermediate casing test.  
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: \_\_\_\_\_  
2. Name of Operator: Noble Energy Inc 3. BLM Lease No: \_\_\_\_\_  
4. API Number: 123-17264 5. Multiple completion? ☒ Yes ☐ No  
6. Well Name: Frank Number: 7-4  
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW1/4 NW1/4 Sec 7-T4N-R63W  
8. County: Weld 9. Field Name: DS Basin  
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 11-4-14  
12. Well Status: ☐ Flowing ☐ Shut In  
☐ Gas Lift ☐ Pumping ☐ Injection  
☐ Clock/Intermittent  
☒ Plunger Lift  
13. Number of Casing Strings:  
☐ Two ☐ Three ☐ Liner?

14. STEP 1: EXISTING PRESSURES  
Record all pressures as found  
Tubing: \_\_\_\_\_ Fm: \_\_\_\_\_  
Tubing: 340 Fm: \_\_\_\_\_  
Prod. Casing: 390 Fm: \_\_\_\_\_  
Intermediate Csg: \_\_\_\_\_  
Surface Casing: 0

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST  
Buried valve? ☐ Yes ☒ No Confirmed open? ☒ Yes ☐ No  
With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:  
O = No Flow; C = Continuous; D = Down to 0; V = Vapor  
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas  
BRADENHEAD SAMPLE TAKEN?  
☐ Yes ☒ No ☐ Gas ☐ Liquid  
Character of Bradenhead fluid: ☐ Clear ☐ Fresh  
☐ Sulfur ☐ Salty ☐ Black  
☐ Other: (describe) None  
Sample cylinder number: \_\_\_\_\_  
Elapsed Time (Min:Sec) Fm: \_\_\_\_\_ Fm: \_\_\_\_\_ Production Casing PSIG Intermediate Casing PSIG Bradenhead Flow:  
00: 9:00 340 390 0  
05: 9:05 340 390 0  
10: 9:10 341 391 0  
15: 9:15 341 391 0  
20: 9:20 341 392 0  
25: 9:25 341 392 0  
30: 9:30 342 392 0  
Note instantaneous Bradenhead PSIG at end of test: >

17. STEP 4: INTERMEDIATE CASING TEST  
Buried valve? ☐ Yes ☐ No Confirmed open? ☐ Yes ☐ No  
With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:  
O = No Flow; C = Continuous; D = Down to 0; V = Vapor  
H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas  
INTERMEDIATE SAMPLE TAKEN?  
☐ Yes ☐ No ☐ Gas ☐ Liquid  
Character of Intermediate fluid: ☐ Clear ☐ Fresh  
☐ Sulfur ☐ Salty ☐ Black  
☐ Other: (describe) \_\_\_\_\_  
Sample cylinder number: \_\_\_\_\_  
Elapsed Time (Min:Sec) Fm: \_\_\_\_\_ Fm: \_\_\_\_\_ Production Casing PSIG Intermediate Casing PSIG Intermediate Flow:  
00: \_\_\_\_\_  
05: \_\_\_\_\_  
10: \_\_\_\_\_  
15: \_\_\_\_\_  
20: \_\_\_\_\_  
25: \_\_\_\_\_  
30: \_\_\_\_\_  
Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed by: Joe Phillips Title: Asst. Foreman Phone: 970-302-1568

Signed: Joe Phillips Title: \_\_\_\_\_ Date: 11-4-14

WITNESSED BY: \_\_\_\_\_ Title: \_\_\_\_\_ Agency: \_\_\_\_\_

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10/29/2014